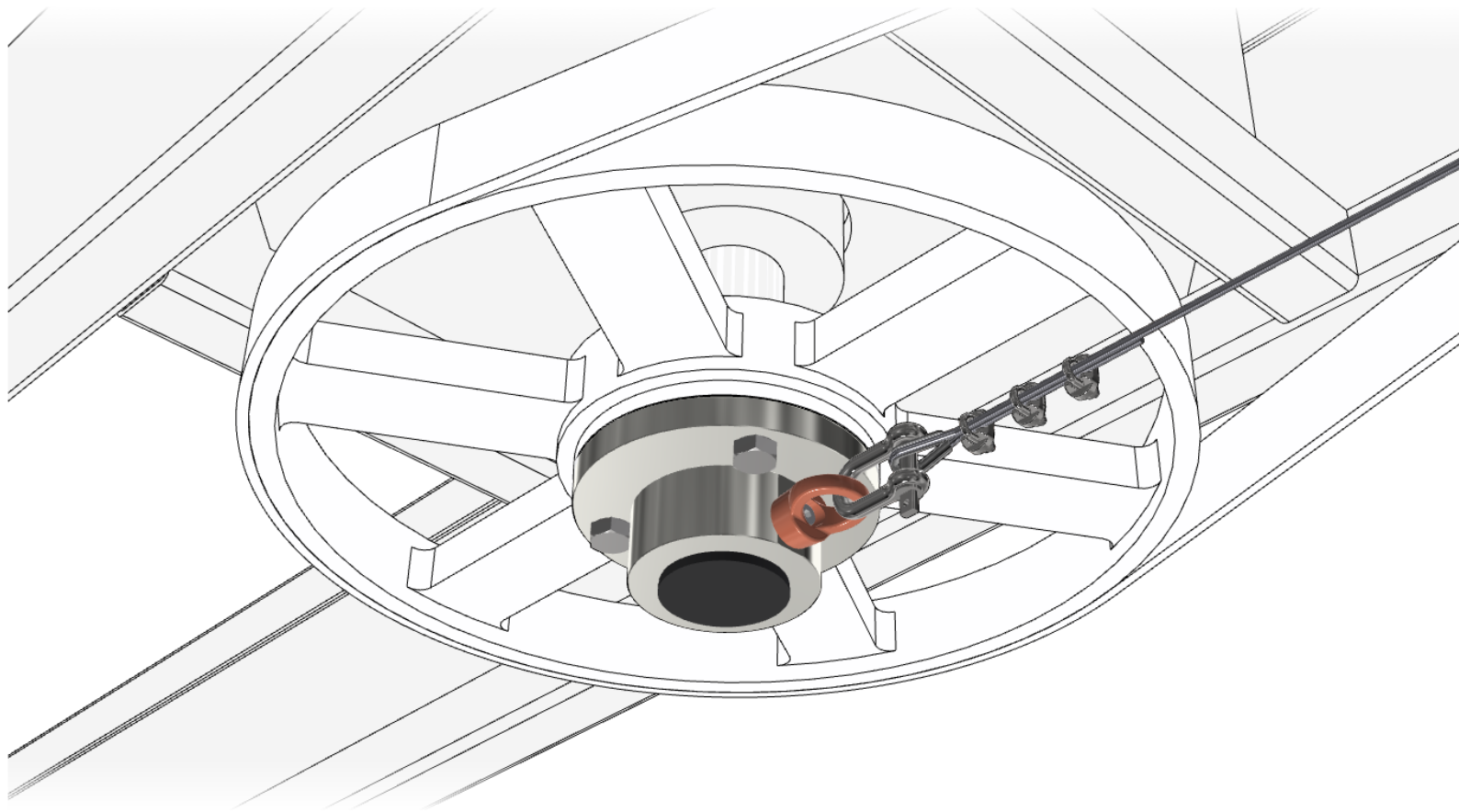


XRLock

Anti-Rotation Device

The optimal solution to avoid backward rotation of your fan drive system



COFIMCO



WHY TO USE AN ANTI-ROTATION DEVICE.

Fan drives, especially the ones installed in air-cooled heat exchangers (ACHE), both forced and induced, can lead to back-drafting currents when not in operation.

This phenomenon causes fan reverse rotation and wind-milling: in this condition, motor start-up results in high torque on fan, supporting structure and drive system components, especially the ones driven by transmission belts, that can get damaged as a result.

The best solution to prevent these kinds of phenomena on fans driven by transmission belts, is supported by the application of the anti-rotation device *XR Lock* on driven pulley.

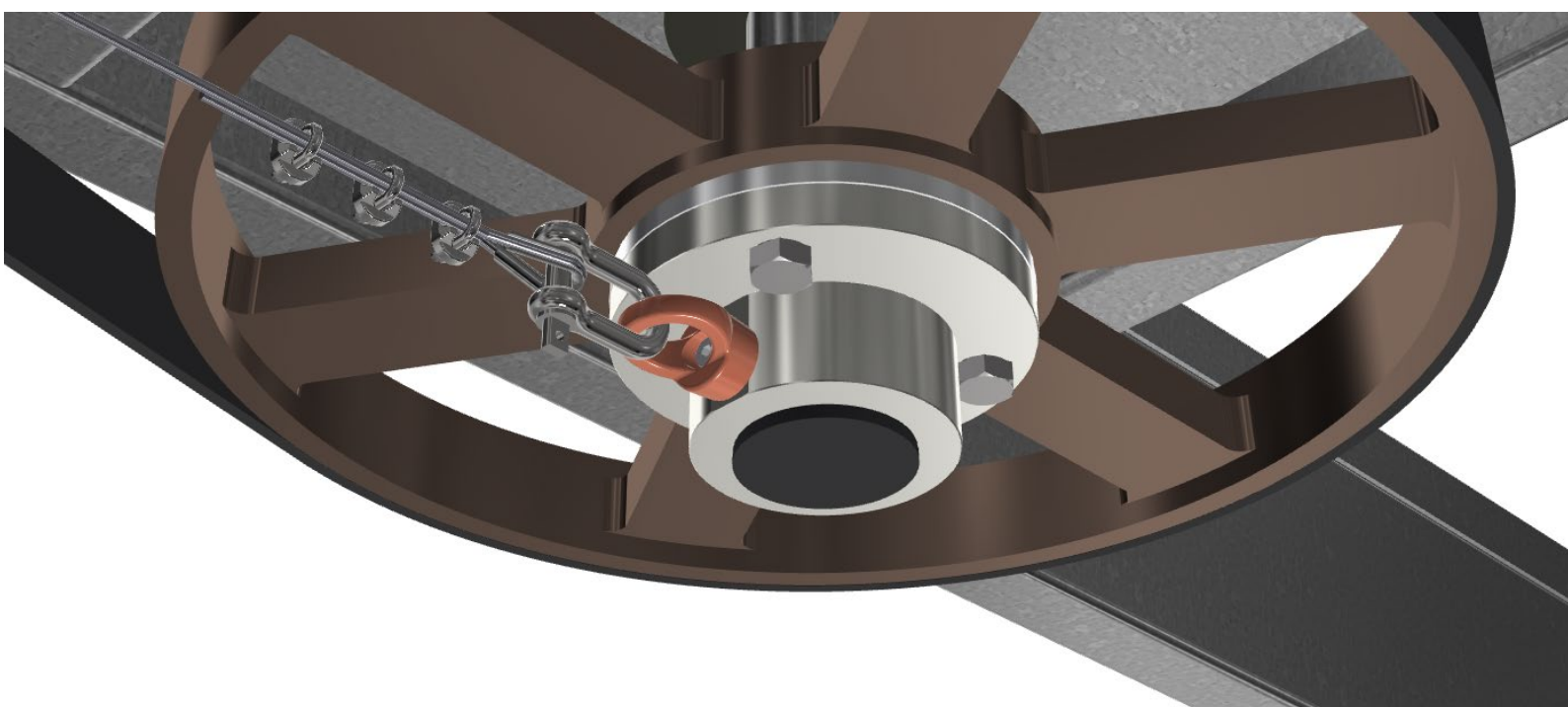
THE OPTIMAL SOLUTION TO SAVE BELTS.

Generally, the first components of drive systems getting damaged by hard starts are transmission belts.

Thanks to the Cofimco *XR Lock*, maintenance and costs related to belt replacement are noticeably reduced.

SAFETY INCREASE WITHOUT UNEXPECTED ROTATION

During maintenance operations on fans or drive systems, workers are close to rotating elements. A sudden rotation of the fan due to possible wind-milling, expose the workers to safety hazards which are minimized by the Anti-Rotation Device.



EASY INSTALLATION

Cofimco *XR Lock* is composed of a one-way clutch which allows the fan shaft to rotate in only one direction. *XR Lock* is easy to install, being fixed on the bushing of driven pulley. It is available for all common bushing types, from the Taper Lock (3020, 3525 etc.) to QD bushing (E, F and J). *XR Lock* can also be installed directly on shaft or to be customized if required.

Thanks to its versatility, Cofimco Anti-Rotation Device can be used on new and already existing ACHE fan drives.

NO MAINTENANCE REQUIRED

XR Lock is lubricated-for-life therefore, no particular maintenance is required.

CERTIFIED TO STANDARD ATEX 2014-34-EU

Cofimco *XR Lock* is designed for Atex area II 2G/D c IIC Tx

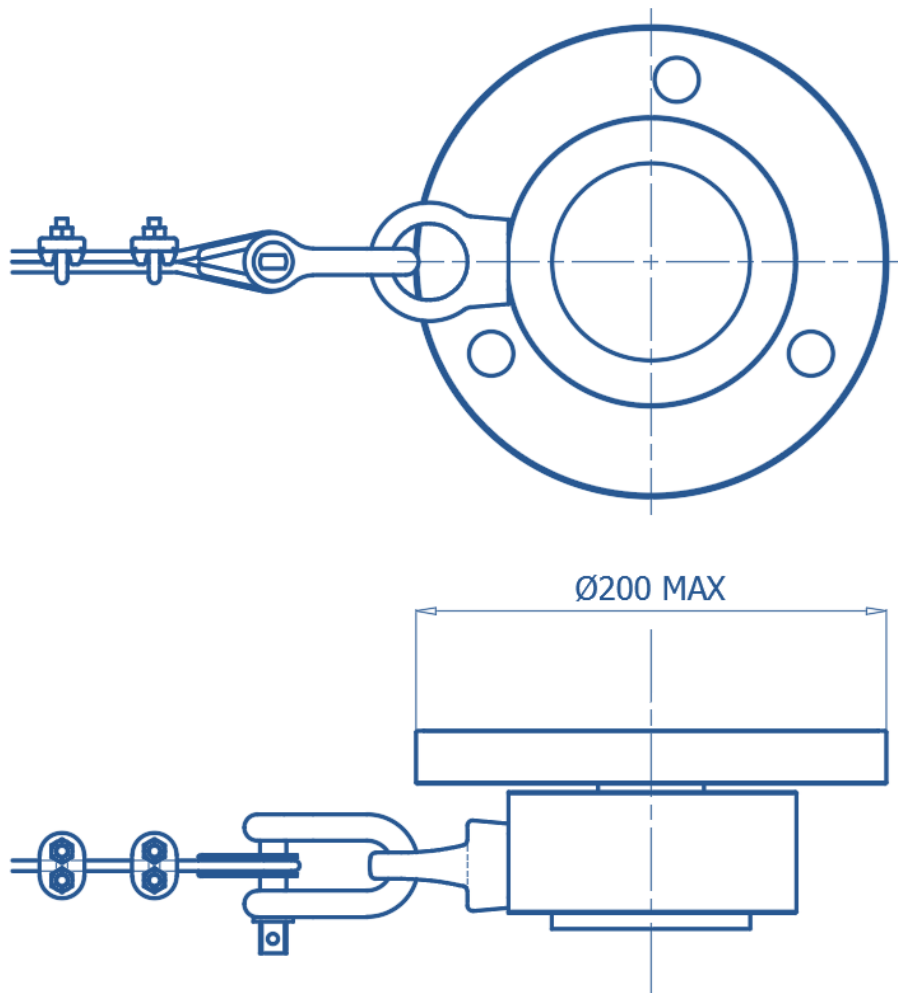


II 2G/D c IIC Tx

COMPACT DESIGN

The compact design of *XR Lock* allows the installation below driven pulleys and in most cases without having to modify the protection fences.





COFIMCO XR LOCK CHARACTERISTICS

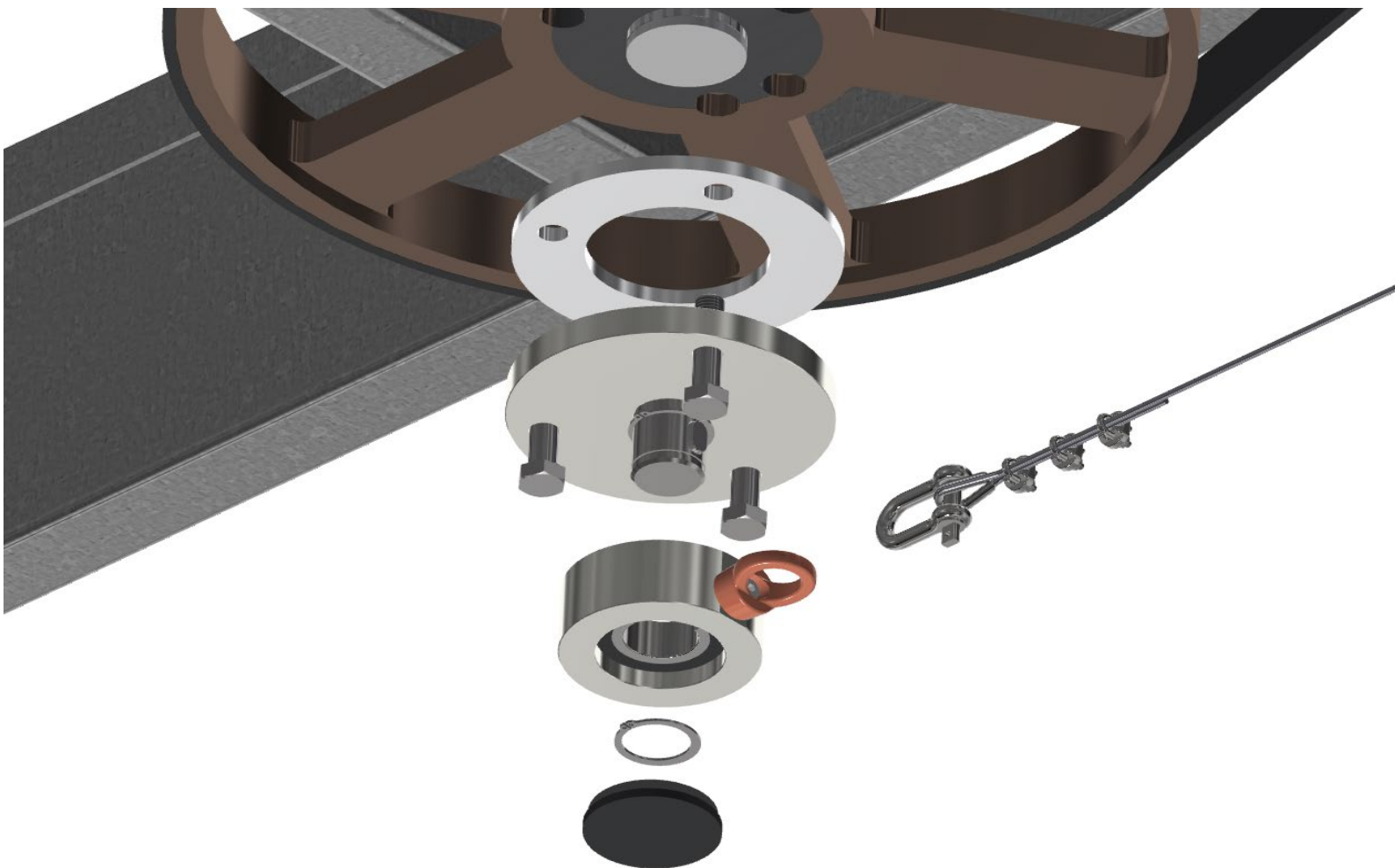
- **TEMPERATURE RANGE: -20°C / 120°C**
For lower temperature, special lubricant is available.
- **MAXIMUM FAN DIAMETER: 6096mm – 20 feet**
Application on larger diameters, can be evaluated.
- **MAXIMUM ROTATION SPEED: 1500 RPM**
- **MAXIMUM TORQUE: 325 Nm**
The value indicated refers to maximum torque in back-stop phase.
- **WEIGHT: 7 kg**

COFIMCO XR LOCK - ANTI-ROTATION DEVICE

ADVANTAGES

Thanks to its simple but strong design and its easy customization, Cofimco Anti-Rotation Device allows a large series of advantages.

- ▶ Eliminates hard-starts of motor caused by reverse rotation of fan during wind-milling
- ▶ Avoids damages on belts and rotating components during start-up
- ▶ Limits safety hazards during general ACHE maintenance operations
- ▶ Designed for ATEX area II 2G/D c IIC Tx
- ▶ Easy mount on taper bushing of driven pulleys
- ▶ Compatible with all pulley bushings or cylindric shaft
- ▶ Customized solution for installation availbale
- ▶ No lubrication required
- ▶ Suitable for forced and induced draft applications
- ▶ Suitable for clockwise and anti-clockwise rotation
- ▶ Its compact design allows installation without having to modify protection fences



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